

**Amendments to the Claims:** This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Previously Amended) A method of formulating one or more analyte data databases, said method comprising:

collecting analyte measurement values from one or more subject using an analyte monitoring device, comprising a sensing device, for each subject and said analyte monitoring device providing (i) frequent analyte measurement values, wherein said analyte measurement values comprise acquired data points that are specifically related to analyte amount or concentration in the subject, (ii) one or more data attributes, and (iii) one or more error messages related to skipped analyte measurement values; and

formulating said one or more analyte data databases by associating each of said data points and each of said one or more error messages related to skipped analyte measurement values with one or more data attributes.

2. (Original) The method of claim 1, wherein said data points further comprise derived data determined from one or more acquired data points and the derived data are associated with the data points from which they are derived.

3. (Original) The method of claim 2, wherein each of said derived data are associated with one or more data attributes.

4. (Original) The method of claim 1, wherein said analyte measurement values are collected from a single individual.

5. (Original) The method of claim 1, wherein said analyte measurement values are collected from more than one individual.

6. (Original) The method of claim 5, wherein said formulating further comprises compiling multiple databases from each database where the data points are collected from a single individual and the data points for each single individual are associated with one or more relevant data attributes.
7. (Original) The method of claim 1, wherein said analyte is a biological analyte.
8. (Original) The method of claim 7, wherein said biological analyte is glucose.
9. (Original) The method of claim 2, wherein said analyte is glucose and said derived data comprises glucose amount or concentration.
10. (Previously Presented) The method of claim 9, wherein said analyte monitoring device is a glucose monitoring device, said glucose monitoring device comprising a sensing device, a display, and means to provide an audible alert when glucose levels in a subject being monitored are outside of a predetermined range.
11. (Previously Presented) The method of claim 1, wherein said acquired data points comprise electrochemical signals.
12. (Original) The method of claim 11, wherein said data attributes are selected from the group consisting of: chronological information, user perspiration levels, device operating temperature, missed measurements; skipped measurements, user body temperature, user skin conductance, environmental variables, alarm events, activity codes, total excursion, mean value, statistical function, subject code, demographic information, physical characteristics, and disease-associated characteristics.
13. (Original) The method of claim 1, wherein said analyte monitoring device is capable of measuring more than one analyte.
14. (Original) The method of claim 13, wherein one of said analytes is glucose.

15. (Previously Presented) One or more analyte data databases on a computer readable medium, comprising data points collected using an analyte monitoring device, comprising a sensing device, wherein said analyte monitoring device provides (i) frequent analyte measurement values and said analyte measurement values comprise data points that are specifically related to analyte amount or concentration, and (ii) one or more data attributes;

one or more data attributes; and

one or more error messages related to skipped analyte measurement values, wherein the data points and each of said one or more error messages related to skipped analyte measurement values are associated with one or more relevant data attributes.

16. (Previously Presented) The one or more databases of claim 15, wherein said data points further comprise derived data determined from one or more acquired data points and the derived data are associated with the data points from which they are derived.

17. (Previously Presented) The one or more databases of claim 16, wherein each of said derived data are associated with one or more data attributes.

18. (Previously Presented) The one or more databases of claim 15, wherein said analyte measurement values are collected from a single individual.

19. (Previously Presented) The one or more databases of claim 15, wherein said analyte measurement values are collected from more than one individual.

20. (Canceled)

21. (Previously Presented) The one or more databases of claim 15, wherein said analyte is a biological analyte.

22. (Previously Presented) The one or more databases of claim 21, wherein said biological analyte is glucose.

23. (Previously Presented) The one or more databases of claim 16, wherein said analyte is glucose and said derived data comprises glucose amount or concentration.

24. (Canceled)

25. (Previously Presented) The one or more databases of claim 15, wherein said acquired data points comprise electrochemical signals.

26. (Previously Presented) The one or more databases of claim 25, wherein said data attributes are selected from the group consisting of: chronological information, user perspiration levels, device operating temperature, missed measurements; skipped measurements, user body temperature, user skin conductance, environmental variables, alarm events, activity codes, total excursion, mean value, statistical function, subject code, demographic information, physical characteristics, and disease-associated characteristics.

27. (Previously Presented) The one or more databases of claim 15, wherein said analyte measurement values comprise analyte measurement values for more than one analyte.

28. (Previously Presented) The one or more databases of claim 27, wherein one of said analytes is glucose.

29. (Previously Presented) A method of manipulating one or more analyte data databases, comprising

providing the one or more analyte data databases of claim 15; and

manipulating said data points via said attributes associated with said data points to determine relationships between said data points and said attributes.

30. (Previously Presented) A method of manipulating one or more analyte data databases, comprising

providing the one or more analyte databases of claim 15; and

manipulating said attributes via said data points associated with said attributes to determine relationships between said attributes and said data points.

31. (Previously Presented) The method of claim 1, wherein one or more of said analyte measurement values, one or more of said error messages, and one or more of said data attributes are transferred to a server via a network.

32. (Previously Presented) The method of claim 31, wherein said formulating is carried out on said server.

33. (Previously Presented) The method of claim 31, wherein said server communicates with said analyte monitoring device.

34. (Previously Presented) The method of claim 29, wherein said one or more analyte databases are located on a network database server.

35. (Previously Presented) The method of claim 34, wherein said manipulating is carried out on said network database server.

36. (Previously Presented) The method of claim 30, wherein said one or more analyte databases are located on a network database server.

37. (Previously Presented) The method of claim 36, wherein said manipulating is carried out on said network database server.

38. (Previously Presented) The method of claim 1, wherein said one or more data attributes associated with said data point or said skipped measurement value is one or more data attribute provided by the analyte monitoring device.

39. (Previously Presented) The method of claim 38, wherein said one or more data attributes are selected from the group consisting of chronological information, user perspiration level, device operating temperature, user body temperature, user skin conductance, environmental variable, number of alarm events, and type of alarm events.

40. (Previously Presented) The method of claim 1, wherein said one or more data attributes associated with said data point or said skipped measurement value is one or more data attribute comprising a user input.

41. (Previously Presented) The method of claim 40, wherein said one or more data attributes are selected from the group consisting of activity codes, sleep and administration of medications, dose of medications, and times of medications.

42. (Previously Presented) The method of claim 1, wherein said one or more data attributes associated with said data point or said skipped measurement value is one or more data identifier.

43. (Currently Amended) The method of claim ~~[[43]]~~42, wherein said one or more data identifiers is selected from the group consisting of maximum analyte values, minimum analyte values, hypoglycemic analyte values, and hyperglycemic analyte values.

44. (Previously Presented) The method of claim 1, wherein said one or more data attributes associated with said data point or said skipped measurement value is one or more subject identifier.

45. (Previously Presented) The method of claim 44, wherein said one or more subject identifiers is selected from the group consisting of a subject code, demographic information,

physical characteristic, selected aspects of the subject's medical history, and disease-associated characteristics.

46. (Previously Presented) The one or more databases of claim 15, wherein said one or more data attributes associated with said data point or said skipped measurement value is one or more data attribute provided by the analyte monitoring device.

47. (Previously Presented) The one or more databases of claim 46, wherein said one or more data attributes are selected from the group consisting of chronological information, user perspiration level, device operating temperature, user body temperature, user skin conductance, environmental variable, number of alarm events, and type of alarm events.

48. (Previously Presented) The one or more databases of claim 15, wherein said one or more data attributes associated with said data point or said skipped measurement value is one or more data attribute comprising a user input.

49. (Previously Presented) The one or more databases of claim 48, wherein said one or more data attributes are selected from the group consisting of activity codes, sleep and administration of medications, dose of medications, and times of medications.

50. (Previously Presented) The one or more databases of claim 15, wherein said one or more data attributes associated with said data point or said skipped measurement value is one or more data identifier.

51. (Previously Presented) The one or more databases of claim 50, wherein said one or more data identifiers is selected from the group consisting of maximum analyte values, minimum analyte values, hypoglycemic analyte values, and hyperglycemic analyte values.

52. (Previously Presented) The one or more databases of claim 15, wherein said one or more data attributes associated with said data point or skipped measurement value is one or more subject identifier.

53. (Previously Presented) The one or more databases of claim 52, wherein said one or more subject identifiers is selected from the group consisting of a subject code, demographic information, physical characteristic, selected aspects of the subject's medical history, and disease-associated characteristics.